

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 99.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-022918**Date Inspected:** 20-Apr-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Shanghai

CWI Name:	Tian Lei, Liu Fa Wen, Chen Shigang			CWI Present:	Yes	No	
Inspected CWI report:	Yes	No	N/A	Rod Oven in Use:	Yes	No	N/A
Electrode to specification:	Yes	No	N/A	Weld Procedures Followed:	Yes	No	N/A
Qualified Welders:	Yes	No	N/A	Verified Joint Fit-up:	Yes	No	N/A
Approved Drawings:	Yes	No	N/A	Approved WPS:	Yes	No	N/A
				Delayed / Cancelled:	Yes	No	N/A
Bridge No:	34-0006			Component:	OBG		

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector R. Hernandez was present during the time noted above and conducted observations relative to the work being performed.

The QA Inspector randomly observed the following work in progress:

Bay Number 1

This inspector observed ZPMC personnel attaching base plates to the following Bike Path Handrail components identified as BKR-NS-3-001~010 and BKR-NS-2-001~012 along south west side of bay no.1. all components are being aligned prior to welding of base plates.

This inspector observed ZPMC personnel welding of components identified as Lift 13 & 14 lifting frame beam.

Bay Number 4

ZPMC personnel heat straightening Orthotropic Box Girder (OBG) traveler rail member identified as 3022TR2-001 for weld(s) 001~016. Distortion appeared to be caused by welding. ZPMC Quality Control (QC) inspector identified as Mr. Tian Lei was present to monitor the heat straightening process. The heat straightening appeared to comply with Heat Straightening Report (HSR) no. HSR(B)-10291.

Bay Number 7

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This QA inspector performed VT of approximately 100% of the area previously tested and accepted by ZPMC Quality Control personnel. All components were as listed on NWIT notification no. 08878. The member(s) is/are identified as OBG Bike Path components as identified below with the following identifying weld no.(s):

1. BK19-BKSA15.
2. BK19-BKSA18.

This inspector observed ZPMC personnel fitting up top cover plate to component identified as BK19-BKSA18.

Bay Number 8

This QA inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. All components were as listed on NWIT notification no. 08877. The member(s) is/are identified as OBG Light Pole Base assembly components as identified below with the following identifying weld no.(s):

1. LB3001A-001-001.
2. LB3001-001-037/051/061.
3. LB3100A-001-001.
4. TB3100-001-037/051/061.
5. SB3001A-001-001.
6. SB3001-001-037/051/061.

Bay Number 9

This QA inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report for this date. All components were as listed on NWIT notification no. 08877. The member(s) is/are identified as OBG Traveler Rail components identified below with the following identifying weld no.(s):

- 1 3012TR8-001-015/016.
- 2 3012TR6-001-011/012.

ZPMC personnel heat straightening Orthotropic Box Girder (OBG) traveler rail member identified as 3013TR1-002 for weld(s) 001~004. Distortion appeared to be caused by welding. ZPMC Quality Control (QC) inspector identified as Mr. Chen Shigang was present to monitor the heat straightening process. The heat straightening appeared to comply with Heat Straightening Report (HSR) no. HSR(B)-10284.

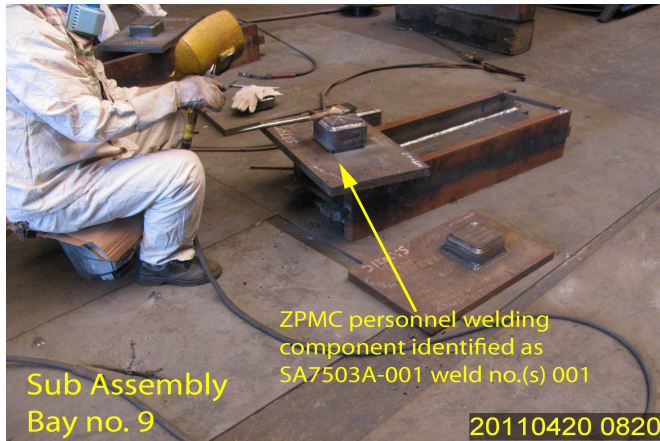
FCAW welding of complete joint penetration welds located on Traveler Rail sub assembly component identified as SA7021D-001 weld no.(s) 001. Welder is identified as welder no. 059378. The welding variables recorded by ZPMC QC identified as Chen Shigang appeared to comply with applicable WPS(s) WPS-B-T-2231-ESAB.

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FCAW welding of complete joint penetration welds located on Traveler Rail sub assembly component identified as SA7503A-001 weld no.(s) 001. Welder is identified as welder no. 059443. The welding variables recorded by ZPMC QC identified as Chen Shigang appeared to comply with applicable WPS(s) WPS-B-T-2231-ESAB.

Unless otherwise noted above all items observed on this day appeared to be in general compliance with the applicable contract documents



Summary of Conversations:

Pertinent conversations are included in the body of the report.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 1500-0042-02372, who represents the Office of Structural Materials for your project.

Inspected By:	Hernandez,Rene	Quality Assurance Inspector
Reviewed By:	Hall,Steven	QA Reviewer
